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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/787,380

02/26/2004

Brad L. Grande

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RYAN, MASON & LEWIS, LLP  
1300 POST ROAD  
SUITE 205  
FAIRFIELD, CT 06824

EXAMINER

CARPIO, IVAN HERNAN

ART UNIT

PAPER NUMBER

2841

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

04/20/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/787,380

Applicant(s)

GRANDE ET AL.

Examiner

Ivan H. Carpio

Art Unit

2841

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 26 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hart (US 5164542) in view Ishikawa (US 4874907).

With respect to claim 1 Hart teaches a modem module (Fig. 5B, element 126) for connecting to a carrier (Fig. 5B, element 124) assembly, comprising: circuitry (column 7, lines 4-6) for interfacing with a telephone line. Hart does not specifically teach one or more solder pads for connecting said modem module to said carrier assembly. Solder pads and solder connection methods are well known in the art, can be found on almost any circuit board with components. Ishikawa teaches solder pads used to electrically and mechanically connect components to a circuit board (column 2, lines 4-9). It would have been obvious to one of ordinary skill in the art at the time of the invention to have one or more solder pads, as taught by Ishikawa, for connecting the modem module, taught by Hart, to the carrier assembly for purpose of easily making a physical and electrical connection to the carrier.

With respect to claim 2 and with all the limitations of claim 1, Hart in view of Ishikawa teaches a tip/ring connector (Fig. 5B, element 210) for interfacing with said telephone line.

With respect to claim 3 and with all the limitations of claim 1, Hart in view of Ishikawa teaches a connection to a tip/ring connector (Fig. 5B, element 210).

With respect to claim 4 and with all the limitations of claim 1, Hart in view of Ishikawa teaches that the carrier assembly is a motherboard (Fig. 5B, element 124).

With respect to claim 5 Hart teaches all of the limitations except that said one or more solder pads are soldered to corresponding one or more solder pads on said carrier assembly. Solder pads and solder connection methods are well known in the art, can be found on almost any circuit board with components. Ishikawa teaches one or more solder pads used to electrically and mechanically connect components to a circuit board (column 2, lines 4-9, Fig. 1). It would have been obvious to one of ordinary skill in the art at the time of the invention to have one or more solder pads which are soldered to corresponding one or more solder pads on said carrier assembly, taught by Hart, to the carrier assembly for purpose of easily making a physical and electrical connection to the carrier.

With respect to claim 6 and with all the limitations of claim 1, Hart in view of Ishikawa teaches that the modem assembly is fabricated on a printed circuit board (Fig. 5B).

With respect to claim 7 and with all the limitations of claim 1, Hart in view of Ishikawa teaches that the modem assembly is an integrated device (Fig. 5B).

Claims 8-13 are rejected with the same logic as claims 1-6 respectively.

Claims 14-20 are rejected with the same logic as claims 1-7 respectively.


### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ivan H. Carpio whose telephone number is 571-272-8396. The examiner can normally be reached on T-F 7:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on 571-272-1984. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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DEAN A. REICHARD  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800  
4/15/07